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SK 1/9/07

Amendments to the Specification:

On page 3, line , please amend the paragraph to read as follows:

"The present invention provides methods for labeling structures, including .beta.-amyloid plaques and neurofibrillary tangles, in vivo and in vitro, and comprises contacting a compound of formula (I):

with mammalian tissue. In formula (I),  $R_1$  is selected from the group consisting of --C(O)-alkyl, --C(O)-alkylenyl- $R_4$ , --C=C(CN).sub.2-alkyl, --C=C(CN)<sub>2</sub>-alkylenyl- $R_4$ ,

 $R_4$  is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl;  $R_5$  is a radical selected from the group consisting of --NH2, --OH, --SH, --NH-alkyl, --NH-alkylenyl- $R_4$ , --O-alkylenyl- $R_4$ , --S-alkyl, and --S-alkylenyl- $R_4$ ;  $R_{.6}$  is a radical selected from the group consisting of --CN, --COOH, --C(O)O-alkyl, --C(O)O-alkylenyl- $R_4$ , --C(O)-alkyl, --C(O)-alkylenyl- $R_4$ , --C(O)-halogen, --C(O)NH2, --C(O)NH-alkyl, --C(O)NH-alkylenyl- $R_4$ ;  $R_7$  is a radical selected from the group consisting of O, NH, and S; and  $R_8$  is  $N_{.0}$  or  $S_{.0}$   $R_8$  is  $N_{.0}$ 

On page 4, line 18, please amend the paragraph to read as follows:

"In still another embodiment, the invention is directed to a composition comprising a compound of formula (I):

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 $R_1$  is selected from the group consisting of --C(O)-alkyl, --C(O)-alkylenyl- $R_4$ , --C(O)O-alkylenyl- $R_4$  --C.=C(CN).sub.2-alkyl, --C=C(CN)<sub>2</sub>-alkylenyl- $R_4$ ,

 $R_4$  is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl;  $R_5$  is a radical selected from the group consisting of --NH<sub>2</sub>, --OH, --SH, --NH-alkyl, --NHR<sub>4</sub> --NH-alkylenyl- $R_4$ , --O-alkyl, --O-alkylenyl- $R_4$ , --S-alkyl, and --S-alkylenyl- $R_4$   $R_6$  is a radical selected from the group consisting of --CN, --COOH, --C(O)O-alkyl, --C(O)O-alkylenyl- $R_4$ , --C(O)-alkylenyl- $R_4$ , --C(O)-halogen, --C(O)NH<sub>2</sub> --C(O)NH-alkyl, --C(O)NH-alkylenyl- $R_4$ ;  $R_7$  is a radical selected from the group consisting of O, NH, and S;  $R_8$  is N, O or S;  $R_8$  is N;  $R_2$  is selected from the group consisting of alkyl and alkylenyl- $R_5$  and  $R_3$  is alkylenyl- $R_5$ , and  $R_5$  is selected from the group consisting of --OH, --OTs, halogen, spiperone, spiperone ketal, and spiperone-3-yl, or  $R_2$  and  $R_3$ together form a heterocyclic ring, optionally substituted with at least one radical selected from the group consisting of alkyl, alkoxy, OH, OTs, halogen, alkylenyl- $R_5$  carbonyl, spiperone, spiperone ketal and spiperone-3-yl. One or more of the hydrogen, halogen or carbon atoms can optionally be replaced with a radiolabel.

On page 7, line 16, please replace the second pictured chemical structure with the following corrected chemical structure:

On page 8, line 10, please amend the paragraph to read as follows:

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"The present invention is directed to methods for labeling structures such as  $.\beta$ -amyloid plaques and neurofibrillary tangles in vivo and in vitro. The methods all involve contacting a compound of formula (I):

with mammalian tissue. In formula (I),  $R_1$  is selected from the group consisting of --C(O)-alkyl, --C(O)-alkylenyl- $R_4$  --C(O)O-alkylenyl- $R_4$  --C=C(CN)<sub>2</sub>-alkyl, --C=C(CN)<sub>2</sub>-alkylenyl- $R_4$ ,

$$R_{6}$$
  $N$  and  $R_{8}$   $N$   $R_{7}$   $R_{8}$   $N$   $R_{7}$ 

 $R_4$  is a radical selected from the group consisting of alkyl, substituted alkyl, aryl and substituted aryl.  $R_5$  is a radical selected from the group consisting of --NH<sub>2</sub>, --OH, --SH, --NH-alkyl, --NHR<sub>4</sub>, --NH-alkylenyl-R<sub>4</sub>, --O-alkylenyl-R<sub>4</sub>, --S-alkyl, and --S-alkylenyl-R<sub>4</sub>. R.sub.6 is a radical selected from the group consisting of --CN, --COOH, --C(O)O-alkyl, --C(O)O-alkylenyl-R<sub>4</sub>, --C(O)-alkylenyl-R<sub>4</sub>, --C(O)-halogen, --C(O)NH<sub>2</sub>, --C(O)NH-alkyl, --C(O)NH-alkylenyl-R<sub>4</sub>. R<sub>7</sub> is a radical selected from the group consisting of O, NH, and S.  $R_8$  is N.  $R_8$  is N.